II. CLAIMS

This listing of claims replaces all prior versions, and listings, of claims of the application.

21. (Currently amended) A mounting system for a pellicle comprising:

a mounting structure for coupling a pellicle to a mask, wherein a sealed interior portion is formed between the pellicle, the mask and the mounting structure; and

a pressure regulator in communication with the sealed interior portion to control a pressure in the interior portion, wherein the pressure regulator is coupled to a device for measuring the pressure in the interior portion.

- 22. (Previously presented) The mounting system of claim 21, further comprising a source of high pressure gas coupled to the pressure regulator, and a source of low pressure gas coupled to the pressure regulator.
- 23. (Previously presented) The mounting system of claim 22, wherein one of the sources of pressure gas is the exterior environment.
- 24. (Previously presented) The mounting system of claim 21, further comprising a pressure sensor operatively coupled to the pressure regulator for detecting a pressure of the interior portion.
- 25. (Previously presented) The mounting system of claim 21, further comprising a position sensor operatively coupled to the pressure regulator to determine the position of the pellicle;

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wherein the pressure difference is controlled by the pressure regulator to maintain a flat surface on the pellicle based on a reading from the position sensor.

26. (Previously presented) The mounting system of claim 21, further comprising a velocity sensor operatively coupled to the pressure regulator to determine the velocity of the pellicle;

wherein the pressure difference is controlled by the pressure regulator to maintain a flat surface on the pellicle based on a reading from the velocity sensor.

- 27. (Previously presented) The mounting system of claim 21, further comprising a calibrated leak from the interior portion to an exterior environment.
- 28. (Previously presented) The mounting system of claim 21, further comprising an aerodynamic fairing adjacent the mounting structure.
- 29. (Previously presented) The mounting system of claim 21, wherein the pressure regulator communicates with the sealed interior portion through a port in the mounting structure.
- 30. (Previously presented) A pellicle mounting system for a mask, the mounting system comprising:

an aerodynamic fairing adjacent the mask, the fairing having a taper to reduce aerodynamic drag on the pellicle and a portion that is co-planar with the pellicle.

- 31. (Previously presented) The mounting system of claim 30, further comprising:

 a mounting structure for coupling the pellicle to the mask, wherein a sealed interior
 portion is formed between the pellicle, the mask and the mounting structure; and
 a pressure regulator to adjust a pressure in the interior portion.
- 32. (Previously presented) The mounting system of claim 31, further comprising a position sensor operatively coupled to the pressure regulator to determine the position of the pellicle;

wherein the pressure difference is controlled by the pressure regulator to maintain a flat surface on the pellicle based on a reading from the position sensor.

33. (Previously presented) The mounting system of claim 31, further comprising a velocity sensor operatively coupled to the pressure regulator to determine the velocity of the pellicle;

wherein the pressure difference is controlled by the pressure regulator to maintain a flat surface on the pellicle based on a reading from the velocity sensor.

- 34. (Previously presented) The mounting system of claim 30, wherein an aerodynamic fairing is provided adjacent each end of the mask that faces a direction of movement of the mounting system.
- 35. (Previously presented) The mounting system of claim 34, further comprising a retractable plate for providing a substantially continuous surface between the aerodynamic fairings.

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- 36. (Previously presented) The mounting system of claim 30, wherein the taper extends to a mask stage and the portion is adjacent the pellicle, and further comprising a curved surface extending between the taper and the portion.
- 37. (Currently amended) A method of reducing distortion of a pellicle for a mask, the method comprising the steps of:

sealing the pellicle to the mask using an airtight mounting structure such that an interior portion is created between the pellicle, the mask and the mounting structure; and

regulating a pressure in the interior portion to reduce distortions in the pellicle, wherein the pressure regulating step includes measuring the pressure in the interior portion.

- 38. (Previously presented) The method of claim 37, further comprising the step of providing an aerodynamic fairing adjacent the mask to reduce turbulent airflow across the pellicle.
- 39. (Previously presented) The method of claim 37, wherein the pressure is regulated according to feedback from at least one of a pressure sensor coupled to the interior portion, a position sensor for the pellicle, and a velocity sensor for the pellicle.
- 40. (Previously presented) The method of claim 37, wherein the regulating step includes regulating the pressure to maintain a flat surface on the pellicle.

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